

## SECTION 09 3013

### CERAMIC TILING

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#### LANL MASTER SPECIFICATION

When editing to suit project, author shall add job-specific requirements and delete only those portions that in no way apply to the activity (e.g., a component that does not apply). To seek a variance from applicable requirements, contact the ESM Architectural POC.

When assembling a specification package, include applicable specifications from all Divisions, especially Division 1, General Requirements.

Delete information within "stars" during editing.

Specification developed for ML-3 projects. For ML-1 / ML-2, additional requirements and QA reviews are required.

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#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Ceramic tile floor and base finish installed using the thinset method.

##### 1.2 SUBMITTALS

- A. Submit the following according to the requirements of Section 01 3300.
  - 1. Samples of proposed tile for approval and selection of colors and textures.
  - 2. Samples of grout material for approval and selection of colors and textures.
  - 3. Manufacturer's installation instructions for using adhesives and grout.

##### 1.3 QUALITY ASSURANCE

- A. Use materials conforming to ANSI standards specified in this Section.
- B. Install conforming to ANSI A108.6.
- C. Use products of a company specializing in the manufacture of the products specified in this Section.
- D. Use an installer who has successfully completed at least 25 projects of similar type and scope as this project.

##### 1.4 ENVIRONMENTAL REQUIREMENTS

- A. Maintain minimum 50 degrees F during installation of mortar and grout materials.

## PART 2 PRODUCTS

### 2.1 CERAMIC TILE MATERIALS

- A. Use unglazed ceramic mosaic tile conforming to ANSI A137.1 and the following:
  - 1. Moisture Absorption: 0 to 0.5
  - 2. Size: 2 by 2 by 1/4 inches
  - 3. Shape: Square
  - 4. Edge: Cushioned
  - 5. Color: As selected from the manufacturer's standard colors.

### 2.2 BASE MATERIALS

- A. Match wall tile for type, moisture absorption, size and color.
  - 1. Top edge: Bullnose
  - 2. Internal corner: Coved
  - 3. External corner: Bullnose

### 2.3 ADHESIVE MATERIALS

- A. Use organic adhesive conforming to ANSI A136.1, of Types I and II thinset bond type.

### 2.4 GROUT MATERIALS

- A. Use grout conforming to ANSI A118.6 of color selected.

### 2.5 GROUT MIX

- A. Mix and proportion grout materials in accordance with manufacturer's instructions.

### 2.6 SEALANT MATERIALS

- A. Use sealant compatible with grout, and of same color and texture as grout material.

## PART 3 EXECUTION

### 3.1 INSPECTION

- A. Verify that surfaces are ready to receive work.
- B. Do not begin installation and notify the University inspector if substrate conditions will adversely affect acceptable results.

### 3.2 PREPARATION

- A. Vacuum clean surfaces.
- B. Protect surrounding work from damage or disfiguration.

### 3.3 INSTALLATION - THINSET METHOD

- A. Install adhesive, tile and grout in accordance with TCA Handbook.
- B. Lay tile to square pattern. Do not interrupt tile pattern through openings.
- C. Cut and fit tile tight to penetrations through tile. Form corners and bases neatly. Align floor, base and wall joints.
- D. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make joints watertight, without voids, cracks, excess mortar, or excess grout.
- E. Sound tile after setting. Replace hollow sounding units.
- F. Allow tile to set for a minimum of 48 hours prior to grouting.
- G. Grout tile joints.
- H. Apply sealant in joints at junctions of dissimilar planes.

### 3.4 CLEANING

- A. Clean work under provisions of Section 01 7700.

### 3.5 PROTECTION OF FINISHED WORK

- A. Do not permit traffic over finished floor for 4 days after installation.

END OF SECTION

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Do not delete the following reference information:

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FOR LANL USE ONLY

This project specification is based on LANL Master Specification 09 3013 Rev. 0, dated January 6, 2006.